Methods in GIS: Spring 2014
Department of Geography, University of Utah

GEOG 5140/6140 4 Units

Course: GEOG 5140/6140, 4 Units
Instructor: Matthew Connolly, Ph.D.
Day &Time: Tuesday/Thursday, 12:25 PM to 1:45 PM
Location: OSH 104

Prerequisites: GEOG 3140

Course Description:
This course explores the practice of using a geographic information system (GIS) to support geographic inquiry and decision making. Students will strengthen their technical knowledge of the common tasks that a geographic analyst faces in applying a GIS to a variety of spatial problems. The lab sections offer an opportunity to gain hands-on experience using a leading commercial GIS to complete a series of real-world projects.

Who is this course for?
This course is intended for advanced undergraduate and graduate students in Geography or related disciplines that want to apply GIS and spatial analysis techniques in a research or professional setting. Graduate students should enroll in GEOG 6140 and will be held to higher standards and/or more work. Course topics will include georeferencing, geocoding, geometric transformations, vector data analysis, raster data analysis, and network analysis among others. Students in this course will gain exposure to the theoretical underpinnings of GIS and spatial analysis, as well as hands-on experience applying the techniques discussed in lecture. Additionally, students enrolled in this course will complete a research project that applies GIS and spatial analysis methods to the topic of their choice.